



=====

Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Thu Sep 27 11:28:33 EDT 2007

=====

Reviewer Comments:

<210> 13

<220>

<221> misc_feature

<222> (1)..(12)

<223> n = Cleaved Nucleic Acids

insufficient explanation for n locations, 'n' represents single nucleotide only.

Validated By CRFValidator v 1.0.3

Application No: 10730476

Version No: 3.0

Input Set:

Output Set:

Started: 2007-09-18 12:17:03.998

Finished: 2007-09-18 12:17:05.966

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 968 ms

Total Warnings: 0

Total Errors: 0

No. of SeqIDs Defined: 87

Actual SeqID Count: 87



SEQUENCE LISTING

<110> Du, Chunying
Yang, Qiheng

<120> Method and Composition for Cleaving IAPs

<130> 40716(IP-022)

<140> 10730476

<141> 2003-12-08

<160> 87

<170> PatentIn version 3.3

<210> 1

<211> 975

<212> DNA

<213> Homo sapiens

<400> 1
gccgtcccta gcccgcgcgc cgcttctccc cggagtcagt acaacttcat cgcagatgtg 60
gtggagaaga cagcacctgc cgtggtctat atcgagatcc tggaccggca ccctttcttg 120
ggccgcgagg tcctatctc gaacggctca ggattcgtgg tggctgccga tgggctcatt 180
gtcaccaacg cccatgtggt ggctgatcgg cgcagagtcc gtgtgagact gctaagcggc 240
gacacgtatg aggccgtggt cacagctgtg gatcccgtag cagacatcgc aacgctgagg 300
attcagacta aggagcctct cccacgctg cctctgggac gctcagctga tgtccggcaa 360
ggggagtttg ttgttccat gggaagtccc ttgactgc agaacacgat cacatccggc 420
attgttagct ctgctcagcg tccagccaga gacctgggac tccccaaac caatgtggaa 480
tacattcaaa ctgatgcagc tattgatatt ggaaactctg gaggtcccct ggttaacctg 540
gatggggagg tgattggagt gaacaccatg aaggtcacag ctggaatctc ctttgccatc 600
ccttctgacg gtcttcgaga gtttctgcat cgtggggaaa agaagaattc ctctccgga 660
atcagtgggt cccagcggcg ctacattggg gtgatgatgc tgacctgag tcccagcatc 720
cttgctgaac tacagcttcg agaaccaagc tttccgatg ttcagcatgg tgtactcatc 780
cataaagtca tcctgggctc cctgcacac cgggctggtc tgcggcctgg tgatgtgatt 840
ttggccattg gggagcagat ggtacaaaat gctgaagatg tttatgaagc tgttcgaacc 900
caatcccagt tggcagtga gatccggcgg ggacgagaaa cactgacctt atatgtgacc 960
cctgaggtca cagaa 975

<210> 2
<211> 975
<212> DNA
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (193)..(193)
<223> n = t, c

<220>
<221> MISC_FEATURE
<222> (195)..(195)
<223> n = t, c

<220>
<221> MISC_FEATURE
<222> (285)..(285)
<223> n = a, t, g, c

<220>
<221> MISC_FEATURE
<222> (519)..(519)
<223> n = a, t, g, c

<400> 2
gccgtcccta gcccgccgcc cgcttctccc cggagtcagt acaacttcac cgcagatgtg 60
gtggagaaga cagcacctgc cgtggtctat atcgagatcc tggaccggca ccctttcttg 120
ggccgcgagg tccctatctc gaacggctca ggattcgtgg tgggtgccga tgggctcatt 180
gtcaccaacg ccnangtggt ggctgatcgg cgcagagtcc gtgtgagact gctaagcggc 240
gacacgtatg aggccgtggt cacagctgtg gatcccgtgg caganatcgc aacgctgagg 300
attcagacta aggagcctct cccacgctg cctctgggac gctcagctga tgtccggcaa 360
ggggagtttg ttgttgccat gggaagtccc tttgactgc agaacacgat cacatccggc 420
attgttagct ctgctcagcg tccagccaga gacctgggac tccccaaac caatgtggaa 480
tacattcaaa ctgatgcagc tattgatttt ggaaactcng gaggtcccct ggtaacctg 540
gatggggagg tgattggagt gaacaccatg aaggtcacag ctggaatctc ctttgccatc 600
ccttctgata gtcttcgaga gtttctgcat cgtggggaaa agaagaatc ctcctccgga 660
atcagtgggt cccagcggcg ctacattggg gtgatgatgc tgaccctgag tcccagcatc 720
cttgctgaac tacagcttcg agaaccaagc tttcccgatg ttcagcatgg tgtactcatc 780
cataaagtca tcttgggctc ccctgcacac cgggctggtc tgcggcctgg tgatgtgatt 840
ttggccattg gggagcagat ggtacaaaat gctgaagatg tttatgaagc tgttcgaacc 900

caatcccagt tggcagtgca gatccggcgg ggacgagaaa cactgacctt atatgtgacc 960

cctgaggtca cagaa 975

<210> 3
<211> 975
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (193)..(193)
<223> n = t, c

<220>
<221> misc_feature
<222> (195)..(195)
<223> n = t, c

<220>
<221> misc_feature
<222> (285)..(285)
<223> n = a, t, g, c

<220>
<221> misc_feature
<222> (519)..(519)
<223> n = t, g

<400> 3
gccgtcccta gcccgcgcc cgcttctccc cggagtcagt acaacttcat cgcagatgtg 60
gtggagaaga cagcacctgc cgtggtctat atcgagatcc tggaccggca ccctttcttg 120
ggccgcgagg tccctatctc gaacggctca ggattcgtgg tggctgccga tgggtcatt 180
gtcaccaacg ccnangtggg ggctgatcgg cgcagagtcc gtgtgagact gctaagcggc 240
gacacgtatg aggccgtggg cacagctgtg gatcccgagg caganatcgc aacgctgagg 300
attcagacta aggagcctct cccacgctg cctctgggac gctcagctga tgtccggcaa 360
ggggagtttg ttgttgccat gggaagtccc tttgactgc agaacacgat cacatccggc 420
attgttagct ctgctcagcg tccagccaga gacctgggac tccccaaac caatgtggaa 480
tacattcaaa ctgatgcagc tattgatattt ggaaacagng gaggtcccct ggttaacctg 540
gatggggagg tgattggagt gaacaccatg aaggtcacag ctggaatctc ctttgccatc 600
ccttctgacg gtcttcgaga gtttctgcat cgtggggaaa agaagaattc ctctccgga 660
atcagtgggt cccagcggcg ctacattggg gtgatgatgc tgaccctgag tcccagcatc 720
cttgctgaac tacagcttcg agaaccaagc tttcccgatg ttcagcatgg tgtactcatc 780

cataaagtca tcttgggctc ccctgcacac cgggctggtc tgcggcctgg tgatgtgatt	840
ttggccattg gggagcagat ggtacaaaat gctgaagatg tttatgaagc tggtcgaacc	900
caatcccagt tggcagtga gatccggcgg ggacgagaaa cactgacctt atatgtgacc	960
cctgaggtca cagaa	975

<210> 4
 <211> 975
 <212> DNA
 <213> Homo sapiens

<220>
 <221> MISC_FEATURE
 <222> (194)..(194)
 <223> t, g, c

<220>
 <221> MISC_FEATURE
 <222> (195)..(195)
 <223> n = a, t, g, c

<220>
 <221> MISC_FEATURE
 <222> (284)..(284)
 <223> n = t, g, c

<220>
 <221> MISC_FEATURE
 <222> (285)..(285)
 <223> n = a, t, g, c

<220>
 <221> MISC_FEATURE
 <222> (519)..(519)
 <223> n = a, t, g, c

<400> 4	
gccgtcccta gccgcgcc cgcttctccc cggagtcagt acaacttcat cgcagatgtg	60
gtggagaaga cagcacctgc cgtggtctat atcgagatcc tggaccggca ccctttcttg	120
ggccgcgagg tccctatctc gaacggctca ggattcgtgg tggetgccga tgggctcatt	180
gtcaccaacg ccgngtggt ggctgatcgg cgcagagtcc gtgtgagact gctaagcggc	240
gacacgtatg aggccgtggt cacagctgtg gatcccgagg caggnatcgc aacgctgagg	300
attcagacta aggagcctct cccacgctg cctctgggac gctcagctga tgtccggcaa	360
ggggagtttg ttgttgccat ggggaagtcct ttgcaactgc agaacacgat cacatccggc	420
attgttagct ctgctcagcg tccagccaga gacctgggac tccccaaac caatgtggaa	480

tacattcaaa ctgatgcagc tattgatttt ggaaactcng gaggtcccct ggtaaacctg	540
gatggggagg tgattggagt gaacaccatg aaggtcacag ctggaatctc ctttgccatc	600
ccttctgata gtcttcgaga gtttctgcat cgtggggaaa agaagaattc ctctccgga	660
atcagtgggt cccagcggcg ctacattggg gtgatgatgc tgaccctgag tcccagcatc	720
cttgctgaac tacagcttcg agaaccaagc tttcccgatg ttcagcatgg tgtactcatc	780
cataaagtca tcctgggctc ccctgcacac cgggctggtc tgcggcctgg tgatgtgatt	840
ttggccattg gggagcagat ggtacaaaat gctgaagatg tttatgaagc tgttcgaacc	900
caatcccagt tggcagtgca gatccggcgg ggacgagaaa cactgacctt atatgtgacc	960
cctgaggtca cagaa	975

<210> 5
 <211> 975
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (193)..(195)
 <223> n = a, t, g, c

<220>
 <221> misc_feature
 <222> (283)..(285)
 <223> n = a, t, g, c

<220>
 <221> misc_feature
 <222> (517)..(517)
 <223> n = g, c

<220>
 <221> misc_feature
 <222> (518)..(519)
 <223> n = a, t, g, c

<400> 5	
gccgtcccta gccgcgccgc cgcttctccc cggagtcagt acaacttcat cgcagatgtg	60
gtggagaaga cagcacctgc cgtgggtctat atcgagatcc tggaccggca ccctttcttg	120
ggccgcgagg tccctatctc gaacggctca ggattcgtgg tggctgccga tgggctcatt	180
gtcaccaacg ccnnngtggg ggctgatcgg cgcagagtcc gtgtgagact gctaagcggc	240
gacacgtatg aggccgtggg cacagctgtg gatcccgtag cannnatcgc aacgctgagg	300

attcagacta aggagcctct cccacgctg cctctgggac gctcagctga tgtccggcaa	360
ggggagtttg ttgttgccat ggaagtcctc ttgcaactgc agaacacgat cacatccggc	420
attgttagct ctgctcagcg tccagccaga gacctgggac tccccaaac caatgtggaa	480
tacattcaaa ctgatgcagc tattgatttt ggaaacnng gaggtcccct ggtaacctg	540
gatggggagg tgattggagt gaacaccatg aaggtcacag ctggaatctc ctttgccatc	600
ccttctgacg gtcttcgaga gtttctgcat cgtggggaaa agaagaattc ctctccgga	660
atcagtgggt cccagcggcg ctacattggg gtgatgatgc tgacctgag tcccagcatc	720
cttgetgaac tacagcttcg agaaccaagc ttccccgatg ttcagcatgg tgtactcatc	780
cataaagtca tcctgggctc cctgcacac cgggctggtc tgcggcctgg tgatgtgatt	840
ttggccattg gggagcagat ggtacaaaat gctgaagatg tttatgaagc tgttcgaacc	900
caatcccagt tggcagtga gatccggcgg ggacgagaaa cactgacctt atatgtgacc	960
cctgagggtca cagaa	975

<210> 6
 <211> 675
 <212> DNA
 <213> Homo sapiens

<400> 6	
gccgtcccta gcccgcgcc cgcttctccc cggagtcagt acaacttcat cgcagatgtg	60
gtggagaaga cagcacctgc cgtggtctat atcgagatcc tggaccggca ccctttcttg	120
ggccgcgagg tccctatctc gaacggctca ggatctgtgg tggctgccga tgggctcatt	180
gtcaccaacg cccatgtggt ggctgatcgg cgcagagtcc gtgtgagact gctaagcggc	240
gacacgtatg aggccgtggt cacagctgtg gatcccgagg cagacatcgc aacgtgagg	300
attcagacta aggagcctct cccacgctg cctctgggac gctcagctga tgtccggcaa	360
ggggagtttg ttgttgccat ggaagtcctc ttgcaactgc agaacacgat cacatccggc	420
attgttagct ctgctcagcg tccagccaga gacctgggac tccccaaac caatgtggaa	480
tacattcaaa ctgatgcagc tattgatttt ggaaactctg gaggtcccct ggtaacctg	540
gatggggagg tgattggagt gaacaccatg aaggtcacag ctggaatctc ctttgccatc	600
ccttctgacg gtcttcgaga gtttctgcat cgtggggaaa agaagaattc ctctccgga	660
atcagtgggt cccag	675

<210> 7

<211> 675
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (193)..(193)
<223> n = t, c

<220>
<221> misc_feature
<222> (195)..(195)
<223> n = t, c

<220>
<221> misc_feature
<222> (285)..(285)
<223> n = a, t, g, c

<220>
<221> misc_feature
<222> (519)..(519)
<223> n = a, t, g, c

<400> 7
gccgtcccta gccgcgcgcc cgcttctccc cggagtcagt acaacttcat cgcagatgtg 60
gtggagaaga cagcacctgc cgtggtctat atcgagatcc tggaccggca ccctttcttg 120
ggccgcgagg tccctatctc gaacggctca ggattcgtgg tggctgccga tgggctcatt 180
gtcaccaacg ccnangtggg ggctgatcgg cgcagagtcg gtgtgagact gctaagcggc 240
gacacgtatg aggccgtggg cacagctgtg gatcccgtgg caganatcgc aacgctgagg 300
attcagacta aggagcctct ccccacgctg cctctggggac gctcagctga tgtccggcaa 360
ggggagtttg ttgttgccat gggaagtccc tttgcactgc agaacacgat cacatccggc 420
attgttagct ctgctcagcg tccagccaga gacctggggac tcccccaaac caatgtggaa 480
tacattcaaa ctgatgcagc tattgatttt ggaaactcng gaggtcccct ggtaaacctg 540
gatggggagg tgattggagt gaacaccatg aaggtcacag ctggaatctc ctttgccatc 600
ccttctgacg gtcttcgaga gtttctgcat cgtggggaaa agaagaattc ctctccgga 660
atcagtgggt ccag 675

<210> 8
<211> 675
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (193)..(193)
<223> n = t, c

<220>
<221> misc_feature
<222> (195)..(195)
<223> n = t, c

<220>
<221> misc_feature
<222> (285)..(285)
<223> n = a, t, g, c

<220>
<221> misc_feature
<222> (519)..(519)
<223> n = t, g

<400> 8
gccgtcccta gcccgccgcc cgcttctccc cggagtcagt acaacttcac cgcagatgtg 60
gtggagaaga cagcacctgc cgtggtctat atcgagatcc tggaccggca ccctttcttg 120
ggccgcgagg tcctatctc gaacggctca ggattcgtgg tggctgccga tgggctcatt 180
gtcaccaacg ccnangtggg ggctgatcgg cgcagagtcc gtgtgagact gctaagcggc 240
gacacgtatg aggccgtggg cacagctgtg gatcccgagg caganatcgc aacgctgagg 300
attcagacta aggagcctct cccacgctg cctctgggac gctcagctga tgtccggcaa 360
ggggagtttg ttgttgccat ggggaagtcct tttgcaactgc agaacacgat cacatccggc 420
attgttagct ctgctcagcg tccagccaga gacctgggac tccccaaac caatgtggaa 480
tacattcaaa ctgatgcagc tattgatttt ggaaacagng gaggtcccct ggtaaacctg 540
gatggggagg tgattggagt gaacaccatg aaggtcacag ctggaatctc ctttgccatc 600
ccttctgatc gtcttcgaga gtttctgcat cgtggggaaa agaagaattc ctctccgga 660
atcagtgggt cccag 675

<210> 9
<211> 675
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (194)..(194)
<223> n = t, g, c

<220>
<221> misc_feature
<222> (195)..(195)
<223> n = a, t, g, c

<220>
<221> misc_feature
<222> (284)..(284)
<223> n = t, g, c

<220>
<221> misc_feature
<222> (285)..(285)
<223> n = a, t, g, c

<220>
<221> misc_feature
<222> (519)..(519)
<223> n = 'a, t, g, c

<400> 9
gccgtcccta gccgcgcgcc cgtttctccc cggagtcagt acaacttcat cgcagatgtg 60
gtggagaaga cagcacctgc cgtggtctat atcgagatcc tggaccggca ccctttcttg 120
ggccgcgagg tccctatctc gaacggctca ggattcgtgg tggctgccga tgggctcatt 180
gtcaccaacg ccgngtgggt ggctgatcgg cgcagagtcc gtgtgagact gctaagcggc 240
gacacgtatg aggccgtggt cacagctgtg gatcccgagg caggnatcgc aacgctgagg 300
attcagacta aggagcctct cccacgctg cctctgggac gctcagctga tgtccggcaa 360
ggggagtttg ttgttgccat gggaagtcce tttgcactgc agaacacgat cacatccggc 420
attgttagct ctgctcagcg tccagccaga gacctgggac tccccaaaac caatgtggaa 480
tacattcaaa ctgatgcagc tattgatttt ggaaactcng gaggtcccct ggtaaacctg 540
gatggggagg tgattggagt gaacaccatg aaggtcacag ctggaatctc ctttgccatc 600
cctctctgac gtcttcgaga gtttctgcat cgtggggaaa agaagaattc ctctccgga 660
atcagtgggt ccag 675

<210> 10
<211> 675
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (193)..(195)
<223> n = a, t, g, c

<220>
<221> misc_feature
<222> (283)..(285)
<223> n = a, t, g, c

<220>
<221> misc_feature
<222> (517)..(517)
<223> n = g, c

<220>
<221> misc_feature
<222> (518)..(519)
<223> n = a, t, g, c

<400> 10
gccgtcccta gccgcgcgcc cgcttctccc cggagtcagt acaacttcat cgcagatgtg 60
gtggagaaga cagcacctgc cgtggtctat atcgagatcc tggaccggca ccctttcttg 120
ggccgcgagg tccctatctc gaacggctca ggattcgtgg tggctgccga tgggctcatt 180
gtcaccaacg ccnnngtggt ggctgatcgg cgcagagtcc gtgtgagact gctaagcggc 240
gacacgtatg aggccgtggt cacagctgtg gatcccgagg cannnatcgc aacgctgagg 300
attcagacta aggagcctct cccacgctg cctctgggac gctcagctga tgtccggcaa 360
ggggagtttg ttgttgccat gggaagtccc ttgacctgc agaacacgat cacatccggc 420
attgttagct ctgctcagcg tccagccaga gacctgggac tccccaaac caatgtggaa 480
tacattcaaa ctgatgcagc tattgatttt ggaaacnng gaggtccctt ggtaaacctg 540
gatggggagg tgattggagt gaacaccatg aaggtcacag ctggaatctc ctttgccatc 600
ccttctgac gtcttcgaga gtttctgcat cgtggggaaa agaagaattc ctctccgga 660
atcagtgggt ccag 675

<210> 11
<211> 963
<212> DNA
<213> Homo sapiens

<400> 11
ccgcgcgccg cttctccccg gagtcagtac aacttcacg cagatgtggt ggagaagaca 60
gcacctgccg tggctctatat cgagatcctg gaccggcacc ctttcttggg ccgcgaggtc 120
cctatctcga acggctcagg attcgtggtg gctgccgatg ggctcattgt caccaacgcc 180
catgtggtgg ctgatcggcg cagagtcctg gtgagactgc taagcggcga cacgtatgag 240
gccgtggtca cagctgtgga tcccgtagga gacatcgcaa cgctgaggat tcagactaag 300

gagcctctcc ccacgctgcc tctgggacgc tcagctgatg tccggcaagg ggagtttgtt	360
gttgccatgg gaagtcctt tgcactgcag aacacgatca catccggcat tgtagctct	420
gctcagcgtc cagccagaga cctgggactc ccccaaacca atgtggaata cattcaaact	480
gatgcagcta ttgattttgg aaactctgga ggtcccttg ttaacctgga tggggagggtg	540
attggagtga acaccatgaa ggtcacagct ggaatctcct ttgccatccc ttctgatcgt	600
cttcgagagt ttctgcatcg tggggaaaag aagaattcct cctccggaat cagtgggtcc	660
cagcggcgct acattggggt gatgatgctg accctgagtc ccagcatcct tgetgaacta	720
cagcttcgag aaccaagctt tcccgatgtt cagcatggtg tactcatcca taaagtcac	780
ctgggctccc ctgcacaccg ggctggtctg cggcctggtg atgtgatttt ggccattggg	840
gagcagatgg tacaaaatgc tgaagatgtt tatgaagctg ttcgaacca atcccagttg	900
gcagtgcaga tccggcgggg acgagaaaca ctgaccttat atgtgacccc tgaggtcaca	960
gaa	963

<210> 12
 <211> 975
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(12)
 <223> n = Cleaved Nucleic Acids

<220>
 <221> misc_feature
 <222> (193)..(193)
 <223> n = t, c

<220>
 <221> misc_feature
 <222> (195)..(195)
 <223> n = t, c

<220>
 <221> misc_feature
 <222> (285)..(285)
 <223> n = a, t, g, c

<220>
 <221> misc_feature
 <222> (519)..(519)
 <223> n = a, t, g, c

<400> 12

```

nnnnnnnnnn nnccgccgcc cgcttctccc cggagtcagt acaacttcat cgcagatgtg      60
gtggagaaga cagcacctgc cgtggctctat atcgagatcc tggaccggca ccctttcttg      120
ggccgcgagg tccctatctc gaacggctca ggattcgtgg tggctgccga tgggctcatt      180
gtcaccaacg ccnangtggt ggctgatcgg cgcagagtcc gtgtgagact gctaagcggc      240
gacacgtatg aggccgtggt cacagctgtg gatcccgtgg caganatcgc aacgctgagg      300
attcagacta aggagcctct cccacgctg cctctgggac gctcagctga tgtccggcaa      360
ggggagtttg ttgttgccat gggaagtccc tttgactgc agaacacgat cacatccggc      420
attgttagct ctgctcagcg tccagccaga gacctgggac tccccaaac caatgtggaa      480
tacattcaaa ctgatgcagc tattgatttt ggaaactcng gaggtccct ggtaacctg      540
gatggggagg tgattggagt gaacaccatg aaggtcacag ctggaatctc ctttgccatc      600
ccttctgac gtcttcgaga gtttctgcat cgtggggaaa agaagaattc ctectccgga      660
atcagtgggt cccagcggcg ctacattggg gtgatgatgc tgacctgag tcccagcatc      720
cttgctgaac tacagcttcg agaaccaagc tttccgatg ttcagcatgg tgtactcatc      780
cataaagtca tcctgggctc ccctgcacac cgggctggtc tgcggcctgg tgatgtgatt      840
ttggccattg gggagcagat ggtacaaaat gctgaagatg tttatgaagc tgttcgaacc      900
caatcccagt tggcagtga gatccggcgg ggacgagaaa cactgacctt atatgtgacc      960
cctgagggtca cagaa                                                    975

```

```

<210> 13
<211> 975
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)..(12)
<223> n = Cleaved Nucleic Acids

```

```

<220>
<221> mi

```